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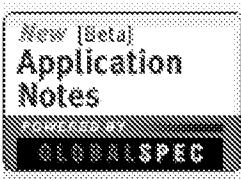
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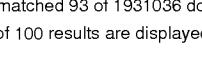
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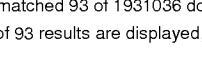
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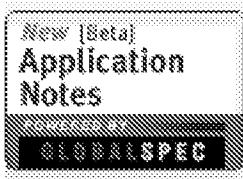
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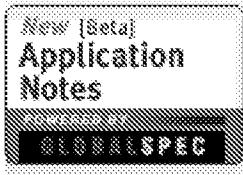
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5 [CountTorrent: ubiquitous access to query aggregates in dynamic and sparse sensor networks](#)

 [Abhinav Kamra, Vishal Misra, Dan Rubenstein](#)

November 2007 [SenSys '07: Proceedings of the 5th international conference on sensor systems](#)

Publisher: ACM

Full text available:  [Pdf](#) (270.94 KB)

Additional Information: [full citation](#), [abstract](#), [bib](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 250, Citation Count: 0

We study the problem of aggregate querying over sensor networks where the network is continuously evolving. We develop scalable data aggregation techniques that are accurate even as nodes move, join or leave the network. We ...

Keywords: TinyOS, aggregate querying, micaz, sensor networks

6 [Monarch: a tool to emulate transport protocol flows over the internet](#)

 [Andreas Haeberlen, Marcelo Dischinger, Krishna P. Gummadi, Stefan Saroiu](#)

October 2006 [IMC '06: Proceedings of the 6th ACM SIGCOMM conference on Internet measurement](#)

Publisher: ACM

Full text available:  [Pdf](#) (816.18 KB)

Additional Information: [full citation](#), [abstract](#), [bib](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 57, Citation Count: 0

This paper proposes Monarch, a novel tool that accurately emulates transport protocols over the Internet. Monarch is controlled by its user to any other Internet host that responds to standard TCP and UDP probes. Since many Internet hosts and routers ...

Keywords: emulation, network measurement, transport protocols

7 [Passive diagnosis for wireless sensor networks](#)

 [November 2008 SenSys '08: Proceedings of the 6th ACM conference on Embedded sensor networks](#)

Publisher: ACM

Full text available:  [Pdf](#) (1.67 MB)

Additional Information: [full citation](#), [abstract](#), [bib](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 4, Citation Count: 0

Network diagnosis, an essential research topic for traditional networking, has received little attention for wireless sensor networks. Existing sensor debugging tools like *Sniffer* rely heavily on an add-in protocol that generates ...

Keywords: diagnosis, wireless sensor networks

8 [Anomalous system call detection](#)

[Darren Mutz, Fredrik Valeur, Giovanni Vigna, Christopher Kruegel](#)

- ◆ February 2006 Transactions on Information and System Security (TIS)  
Publisher: ACM  
Full text available:  Pdf (645.58 KB) Additional Information: [full citation](#), [abstract](#), [... Bibiometrics](#)

Intrusion detection systems (IDSs) are used to detect traces of malicious network and its resources. Anomaly-based IDSs build models of the expected behavior of the network and then analyze the network traffic for deviations, analyzing events that are generated during ...

Keywords: Bayesian network, Intrusion detection, anomaly detection, computer security, security, security systems

**9 Parallel execution for serial simulators**

- ◆ David Nicol, Philip Heidelberger  
July 1996 Transactions on Modeling and Computer Simulation (TOMC)  
Publisher: ACM  
Full text available:  Pdf (450.56 KB) Additional Information: [full citation](#), [abstract](#), [... Bibiometrics](#)

Downloads (6 Weeks): 8, Downloads (12 Months): 48, Citation Count: 100

This article describes an approach to discrete event simulation modeling that is based on parallel execution. It is concerned with developing portable and efficient parallel execution of models of large distributed systems, such as communication networks. In this approach, the modeler ...

Keywords: parallel simulation, simulation tools

**10 Communications of the ACM: Volume 51 Issue 11**

- ◆ November 2008 Communications of the ACM  
Publisher: ACM  
Full text available:  Digital Edition,  Pdf (8.26 MB) Additional Information: [full citation](#), [abstract](#), [... Bibiometrics](#)

Downloads (6 Weeks): 8046, Downloads (12 Months): 8046, Citation Count: 100

**11 WiFiProfiler: cooperative diagnosis in wireless LANs**

- ◆ Ranveer Chandra, Venkata N. Padmanabhan, Ming Zhang  
June 2006 MobiSys '06: Proceedings of the 4th international conference on Mobile systems, applications and services  
Publisher: ACM  
Full text available:  Pdf (404.12 KB) Additional Information: [full citation](#), [abstract](#), [... Bibiometrics](#)

Downloads (6 Weeks): 12, Downloads (12 Months): 110, Citation Count: 100

While 802.11-based wireless hotspots are proliferating, users often have to manually switch between them to find a network that works. This is because a network that works for one user does not work or performs poorly for *them*. They are left trying to manually switch between them, which can be a frustrating and disruptive ...

Keywords: 802.11, fault diagnosis, peer-to-peer performance problems

**12 BitDew: a programmable environment for large-scale data management**

- Gilles Fedak, Haiwu He, Franck Cappello  
November 2008 SC '08: Proceedings of the 2008 ACM/IEEE conference on Supercomputing  
Publisher: IEEE Press

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation

Desktop Grids use the computing, network and storage resources from its multiple-LAN's or the Internet to compute a large variety of resource-demanding applications. While these applications need to access, ...

### 13 A Graph Based Approach Toward Network Forensics Analysis

 October 2008 Transactions on Information and System Security (TISS)  
Publisher: ACM

Full text available:  [Pdf](#) (1.08 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 59, Downloads (12 Months): 59, Citation

In this article we develop a novel graph-based approach toward network forensics analysis. Our approach is the evidence graph model that facilitates evidence preservation and reasoning. Based on the evidence graph, we propose a hierarchical ...

Keywords: evidence graph, hierarchical reasoning, network forensics

### 14 Proceedings of the 6th ACM international conference on Image and video retrieval

 Nicu Sebe, Marcel Worring  
July 2007 CIVR '07: Proceedings of the 6th ACM international conference on Image and video retrieval  
Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation

Welcome to the ACM International Conference on Image and Video Retrieval. In its 6 editions, the CIVR conference has now become an official ACM Conference. The conference is one of the most important and influential ...

### 15 Continuous nearest neighbor monitoring in road networks

Kyriakos Mouratidis, Man Lung Yu, Dimitris Papadias, Nikos Mamoulis  
September 2006 VLDB '06: Proceedings of the 32nd international conference on Very large data bases  
Publisher: VLDB Endowment

Full text available:  [Pdf](#) (809.04 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 123, Citation

Recent research has focused on continuous monitoring of nearest neighbor queries in moving object scenarios, where the queries and the data objects move frequently and at different speeds. However, assume the Euclidean distance metric. In ...

### 16 CarTel: a distributed mobile sensor computing system

 Bret Hull, Vladimir Bychkovsky, Yang Zhang, Kevin Chen, Michel Goraczko, Balakrishnan, Samuel Madden  
October 2006 SenSys '06: Proceedings of the 4th international conference on Embedded networked sensor systems  
Publisher: ACM

Full text available:  [Pdf](#) (2.04 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 50, Downloads (12 Months): 448, Citation

*CarTel* is a mobile sensor computing system designed to collect, process, sensors located on mobile units such as automobiles. A CarTel node is a coupled to a set of sensors. Each node gathers ...

**Keywords:** data management, data visualization, implementation, inter query processing, sensor networks

17 [Attested append-only memory: making adversaries stick to their work](#)

 Byung-Gon Chun, Petros Maniatis, Scott Shenker, John Kubiatowicz

October 2007 SOSP '07: Proceedings of twenty-first ACM SIGOPS symposium principles

Publisher: ACM

Full text available:  Pdf (361.31 KB)

Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 130, Citations (6 Weeks): 10, Citations (12 Months): 100

Researchers have made great strides in improving the fault tolerance of systems against arbitrary (Byzantine) faults. However, there are hard limits when using such systems in environments that include entirely untrusted components; for example, ...

**Keywords:** attested append-only memory, byzantine-fault tolerance, embedded systems, fault tolerance, shared storage

Also published in:

October 2007 SIGOPS Operating Systems Review Volume 41 Issue 6

18 [Communications of the ACM: Volume 51 Issue 7](#)

 July 2008 Communications of the ACM

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (6.54 MB) Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 4977, Downloads (12 Months): 6313, Citations (6 Weeks): 100, Citations (12 Months): 1000

19 [Towards understanding IT security professionals and their tools](#)

 David Bolla, Rodrigo Werlinger, André Gagné, Konstantin Beznosov, Lee Iverson

July 2007 SOUPS '07: Proceedings of the 3rd symposium on Usable privacy and security

Publisher: ACM

Full text available:  Pdf (272.99 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 58, Downloads (12 Months): 485, Citations (6 Weeks): 10, Citations (12 Months): 100

We report preliminary results of our ongoing field study of IT professionals' security management. We interviewed a dozen practitioners from five organizations and their workplace and tools. We analyzed the interviews using ...

**Keywords:** collaboration, ethnography, security management, security professionals, security tools

20 [Abstraction-based intrusion detection in distributed environments](#)

 Peng Ning, Sushil Jajodia, Xiaoyang Sean Wang

November 2001 Transactions on Information and System Security (TI)  
Publisher: ACM  
Full text available:  [PDF](#) (590.61 KB) Additional Information: [full citation](#), [abstract](#), [cite](#)  
Bibliometrics: Downloads (6 Weeks): 58, Downloads (12 Months): 256, Citation Count: 10

Abstraction is an important issue in intrusion detection, since it not only  
handles heterogeneous systems, but also allows generic intrusion-detection models.  
The abstraction process is error-prone and is not well supported ...

Keywords: Cooperative information systems, heterogeneous systems, intrusion detection

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1 [One step ahead](#)

[February 2007 Queue, Volume 5 Issue 1](#)

Publisher: ACM

 Full text available: [Html](#) (19.93 KB), [Pdf](#) (819.03 KB) Additional Information: [full citation](#), [abstract](#), [more](#)

Bibliometrics: Downloads (6 Weeks): 65, Downloads (12 Months): 167, Citation Count: 10, ...

Security vulnerabilities abound, but a few simple steps can minimize you

2 [A framework for constructing features and models for intrusion detection](#)

[November 2000 Transactions on Information and System Security \(TISSEC\)](#)

Publisher: ACM

 Full text available: [Pdf](#) (187.03 KB) Additional Information: [full citation](#), [abstract](#), [more](#)

Bibliometrics: Downloads (6 Weeks): 83, Downloads (12 Months): 585, Citation Count: 10, ...

Intrusion detection (ID) is an important component of infrastructure protection. Intrusion detection systems (IDSs) need to be accurate, adaptive, and extensible. To address these challenges, this paper presents a framework for constructing features and models for intrusion detection. The framework is based on a two-stage process: feature construction and model construction. The feature construction stage involves identifying and extracting relevant features from the network traffic. The model construction stage involves training a machine learning model to classify the features as either normal or abnormal. The proposed framework has been evaluated on a real-world dataset and has shown promising results in terms of detection accuracy and false alarm rate.

Keywords: data mining, feature construction, intrusion detection

3 [Communications of the ACM: Volume 51 Issue 11](#)

Publisher: ACM

 Full text available: [Digital Edition](#), [Pdf](#) (8.26 MB) Additional Information: [full citation](#), [abstract](#), [more](#)

Bibliometrics: Downloads (6 Weeks): 8046, Downloads (12 Months): 8046, Citation Count: 10, ...

4 [Towards understanding IT security professionals and their tools](#)

[July 2007 SOUPS '07: Proceedings of the 3rd symposium on Usable privacy and security](#)

Publisher: ACM

 Full text available: [Pdf](#) (272.99 KB) Additional Information: [full citation](#), [abstract](#), [more](#)

Bibliometrics: Downloads (6 Weeks): 58, Downloads (12 Months): 485, Citation Count: 10, ...

We report preliminary results of our ongoing field study of IT professionals

management. We interviewed a dozen practitioners from five organizational workplace and tools. We analyzed the interviews using ...

**Keywords:** collaboration, ethnography, security management, security + security

**5 Cybercrime, identity theft, and fraud: practicing safe internet - network**

 **vulnerabilities**

**Robert C. Newman**

September 2006 InfoSecCD '06: Proceedings of the 3rd annual conference on curriculum development

Publisher: ACM

Full text available:  Pdf (123.56 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#)

Bibliometrics: Downloads (6 Weeks): 142, Downloads (12 Months): 1116, Citations (6 Weeks): 1, Citations (12 Months): 11

Computer networks and computer systems are experiencing attacks and threats. Threats are also extended to include the individual user's computer assets. This paper will be presented on the categories of security and privacy ...

**Keywords:** cybercrime, identity theft, internet fraud

**6 Anomalous system call detection**

 **Darren Mutz, Fredrik Valeur, Giovanni Vigna, Christopher Kruegel**

February 2006 Transactions on Information and System Security (TIS)

Publisher: ACM

Full text available:  Pdf (645.58 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#)

Bibliometrics: Downloads (6 Weeks): 48, Downloads (12 Months): 334, Citations (6 Weeks): 1, Citations (12 Months): 33

Intrusion detection systems (IDSs) are used to detect traces of malicious activity within a network and its resources. Anomaly-based IDSs build models of the expected behavior of the network and analyze events that are generated during ...

**Keywords:** Bayesian network, Intrusion detection, anomaly detection, computer security

**7 Communications of the ACM: Volume 51 Issue 10**

 **October 2008 Communications of the ACM**

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (7.16 MB) Additional Information: [full citation](#), [abstract](#), [citations](#)

Bibliometrics: Downloads (6 Weeks): 11810, Downloads (12 Months): 11810, Citations (6 Weeks): 1, Citations (12 Months): 11

**8 Security as a new dimension in embedded system design**

 **Paul Kocher, Ruby Lee, Gary McGraw, Anand Raghunathan / Srivaths Ravi**

June 2004 DAC '04: Proceedings of the 41st annual conference on Design Automation

Publisher: ACM

Full text available:  Pdf (209.10 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#)

Bibliometrics: Downloads (6 Weeks): 77, Downloads (12 Months): 417, Citations (6 Weeks): 1, Citations (12 Months): 4

The growing number of instances of breaches in information security in t compelling case for efforts towards secure electronic systems. Embeddedc ubiquitously used to capture, store, manipulate, and ...

**Keywords:** PDAs, architectures, battery life, cryptography, design, desi management, embedded systems, performance, security, security proce sensors, software attacks, tamper resistance, trusted computing, viruses

**9 Abstraction-based intrusion detection in distributed environments**

 Peng Ning, Sushil Jajodia, Xiaoyang Sean Wang  
November 2001 Transactions on Information and System Security (TI)

Publisher: ACM

Full text available:  Pdf (590.61 KB)

Additional Information: [full citation](#), [abstract](#), [more](#)

Bibliometrics: Downloads (6 Weeks): 58, Downloads (12 Months): 256, Citation

Abstraction is an important issue in intrusion detection, since it not only heterogeneous systems, but also allows generic intrusion-detection mode error-prone process and is not well supported ...

**Keywords:** Cooperative information systems, heterogeneous systems, i detection

**10 Communications of the ACM: Volume 51 Issue 5**

 May 2008 Communications of the ACM  
Publisher: ACM

Full text available:  Digital Edition ,  Pdf (7.28 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 551, Downloads (12 Months): 1464, Citation

**11 Testing intrusion detection systems: a critique of the 1998 and 1999**  
**system evaluations as performed by Lincoln Laboratory**

 November 2000 Transactions on Information and System Security (TI)

Publisher: ACM

Full text available:  Pdf (156.16 KB)

Additional Information: [full citation](#), [abstract](#), [more](#)

Bibliometrics: Downloads (6 Weeks): 45, Downloads (12 Months): 410, Citation

In 1998 and again in 1999, the Lincoln Laboratory of MIT conducted a comprehensive evaluation of intrusion detection systems (IDSs) developed under DARPA funding. While this was a significant and monumental undertaking, there are a number ...

**Keywords:** computer security, intrusion detection, receiver operating characteristic

**12 Interactions: Volume 15 Issue 4**

 July 2008 Interactions  
Publisher: ACM

Full text available:  Digital Edition ,  Pdf (5.84 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 206, Downloads (12 Months): 542, Citation

**◆ Proceedings of the conference on Design, automation and test in Eu****Donatella Sciuto**March 2008 DATE '08: Proceedings of the conference on Design, automatic  
Publisher: ACMAdditional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation

Welcome to the DATE 08 Conference Proceedings. DATE combines the w  
systems design conference and Europe's leading international exhibition  
automation and test, from system level hardware and software ...

**14 Risks to the public****◆ Peter G. Neumann**July 2005 SIGSOFT Software Engineering Notes , Volume 30 Issue 4  
Publisher: ACMFull text available:  [Pdf](#) (151.77 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 42, Downloads (12 Months): 304, Citation

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of th  
and Public Policy), plus personal contributions by others, as indicated. Or  
rather than organizational, and all of the usual ...

**15 Selling in the era of the "Net": integration of electronic commerce in s****William J. Kettinger, Gary Hackbarth**December 1997 I C I S '97: Proceedings of the eighteenth international conf  
Publisher: Association for Information SystemsFull text available:  [Pdf](#) (70.91 KB) Additional Information: [full citation](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 33, Citation

**16 Passive network forensics: behavioural classification of network host****◆ patterns****John McHugh, Ron McLeod, Vagishwari Nagaonkar**

April 2008 SIGOPS Operating Systems Review , Volume 42 Issue 3

Publisher: ACM

Full text available:  [Pdf](#) (2.40 MB) Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 53, Downloads (12 Months): 158, Citation

Passive monitoring of the data entering and leaving an enterprise netwo  
forensic objectives. We have developed analysis techniques for NetFlow c  
identification and can confirm individual host roles and ...

Keywords: behaviour, forensic, intrusion detection, intrusion preventior  
peer-to-peer, propagation prevention, security, traffic, virus, worm

**17 Puppetnets: misusing web browsers as a distributed attack infrastruc****◆ V. T. Lam, S. Antonatos, P. Akritidis, K. G. Anagnosakis**October 2006 CCS '06: Proceedings of the 13th ACM conference on Comput  
Publisher: ACMFull text available:  [Pdf](#) (871.35 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 38, Downloads (12 Months): 420, Citation Count: 1

Most of the recent work on Web security focuses on preventing attacks to the host machine and user. In this paper we attempt to quantify the threat caused by misused for attacking third parties. ...

Keywords: distributed attacks, malicious software, web security

**18 Risks to the public**

 Peter G. Neumann

May 2008 SIGSOFT Software Engineering Notes, Volume 33 Issue 3

Publisher: ACM

Full text available:  Pdf (330.27 KB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 167, Citation Count: 1

**19 Privacy-safe network trace sharing via secure queries**

 October 2008 NDA '08: Proceedings of the 1st ACM workshop on Network Data Anonymization

Publisher: ACM

Full text available:  Pdf (313.28 KB) Additional Information: [full citation](#), [abstract](#), [bib](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 9, Citation Count: 1

Privacy concerns relating to sharing network traces have traditionally been addressed by sanitization, which includes removal of sensitive data and IP address anonymization. This is a poor solution for data sharing that offers insufficient ...

Keywords: network traces, privacy, sanitization, sharing

**20 A new intrusion detection system using support vector machines and Bayesian networks**

Latifur Khan, Mamoun Awad, Bhavani Thuraisingham

October 2007 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 18, Number 4, Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (514.93 KB) Additional Information: [full citation](#), [abstract](#), [bib](#)

Bibliometrics: Downloads (6 Weeks): 42, Downloads (12 Months): 257, Citation Count: 1

Whenever an intrusion occurs, the security and value of a computer system is at risk. Network based attacks make it difficult for legitimate users to access various network resources by occupying or sabotaging network resources and services. ...

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1 [Proceedings of the 9th annual conference on Genetic and evolutionary computation](#)

Hod Lipson

July 2007 GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation

Publisher: ACM

Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citations: 0

These proceedings contain the papers presented at the *9<sup>th</sup> Annual Genetic and Evolutionary Computation Conference (GECCO-2007)*, held in London, UK, July 7-11, 2007. The conference was held outside the US. This clearly proved ...

2 [Network intrusion detection through Adaptive Sub-Eigenspace Model](#)

Mei-Ling Shyu, Thiago Quirino, Zongxing Xie, Shu-Ching Chen, Liwu Chang

September 2007 *Transactions on Autonomous and Adaptive Systems* (TAAS)

Publisher: ACM

Full text available: [PDF](#) (1.93 MB) Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 74, Downloads (12 Months): 747, Citations: 1

Recently, network security has become an extremely vital issue that becomes increasingly important. The need for accurate and efficient solutions capable of effectively defending our network against intrusions is becoming more and more important. As information journeys through them, In this article, ...

Keywords: Agent communications, adaptive sub-eigenspace modeling (ASEM), distributed system, intrusion detection, network security

3 [A framework for constructing features and models for intrusion detection](#)

Wenke Lee, Salvatore J. Stolfo

November 2000 *Transactions on Information and System Security* (TISSEC)

Publisher: ACM

Full text available: [PDF](#) (187.03 KB) Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 83, Downloads (12 Months): 585, Citations: 1

Intrusion detection (ID) is an important component of infrastructure protection. Network intrusion detection systems (IDSs) need to be accurate, adaptive, and extensible. The main challenge is to deal with the complexities of today's network environments, ...

Keywords: data mining, feature construction, intrusion detection

4 [Abstraction-based intrusion detection in distributed environments](#)

 Peng Ning, Sushil Jajodia, Xiaoyang Sean Wang  
November 2001 Transactions on Information and System Security (TI)  
Publisher: ACM

Full text available:  Pdf (590.61 KB)

Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 58, Downloads (12 Months): 256, Citation

Abstraction is an important issue in intrusion detection, since it not only  
heterogeneous systems, but also allows generic intrusion-detection models  
error-prone process and is not well supported ...

Keywords: Cooperative information systems, heterogeneous systems, intrusion detection

5 [ACM SIGMOBILE Mobile Computing and Communications Review](#)

 October 2005 SIGMOBILE Mobile Computing and Communications Review  
Publisher: ACM

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation

6 [Communications of the ACM: Volume 51 Issue 5](#)

 May 2008 Communications of the ACM  
Publisher: ACM

Full text available:  Digital Edition,  Pdf (7.28 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 551, Downloads (12 Months): 1464, Citation

7 [ACM SIGPLAN Notices: Volume 40 Issue 8](#)

 August 2005 SIGPLAN Notices  
Publisher: ACM

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation

8 [Communications of the ACM: Volume 51 Issue 1](#)

 January 2008 Communications of the ACM  
Publisher: ACM

Full text available:  Digital Edition,  Pdf (5.97 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 665, Downloads (12 Months): 4496, Citation

9 [Proceedings of the conference on Design, automation and test in Europe](#)

 Donatella Sciuto  
March 2008 DATE '08: Proceedings of the conference on Design, automatic  
Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation

Welcome to the DATE 08 Conference Proceedings. DATE combines the world's leading systems design conference and Europe's leading international exhibition on automation and test, from system level hardware and software ...

**10 A Graph Based Approach Toward Network Forensics Analysis**

 October 2008 Transactions on Information and System Security (TISS)

Publisher: ACM

Full text available:  Pdf (1.08 MB)

Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 59, Downloads (12 Months): 59, Citation

In this article we develop a novel graph-based approach toward network forensics analysis. Our approach is the evidence graph model that facilitates evidence preservation and reasoning. Based on the evidence graph, we propose a hierarchical ...

**Keywords:** evidence graph, hierarchical reasoning, network forensics

**11 Profiling internet backbone traffic: behavior models and applications**

 Kuan Xu, Zhi-Li Zhang, Supratik Bhattacharyya

August 2005 SIGCOMM '05: Proceedings of the 2005 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available:  Pdf (850.20 KB)

Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 54, Downloads (12 Months): 248, Citation

Recent spates of cyber-attacks and frequent emergence of applications and services in the Internet have made it imperative to develop effective techniques that can extract significant communication patterns from Internet traffic ...

**Keywords:** behavior profiles, network monitoring, traffic measurement

Also published in:

October 2005 SIGCOMM Computer Communication Review Volume 35 Issue 4

**12 Enhancing the security of corporate Wi-Fi networks using DAIR**

 Paramvir Bahl, Ranveer Chandra, Jitendra Padhye, Lenin Ravindranath, Mark Weiser, Brian Zill

June 2006 MobiSys '06: Proceedings of the 4th international conference on Mobile systems, applications and services

Publisher: ACM

Full text available:  Pdf (302.26 KB)

Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 290, Citation

We present a framework for monitoring enterprise wireless networks using a dense array of inexpensive sensors. The framework is called DAIR, which is short for *Dense Array of Inexpensive* sensors. The DAIR framework is useful for detecting ...

**Keywords:** 802.11, denial-of-service, rogue AP, security, wireless networks

**What's new: finding significant differences in network data streams**

Graham Cormode, S. Muthukrishnan

December 2005 | IEEE/ ACM Transactions on Networking (TON) , Volume 1  
Publisher: IEEE PressFull text available:  Pdf (610.95 KB)Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 68, Citation

Monitoring and analyzing network traffic usage patterns is vital for managing network traffic. One problem is to provide network managers with information about changes in traffic patterns. Specifically, we focus on the ...

**Keywords:** change detection, data streams, deltoids, network data analysis

**14 Understanding passive and active service discovery** Genevieve Bartlett, John Heidemann, Christos PapadopoulosOctober 2007 | IMC '07: Proceedings of the 7th ACM SIGCOMM conference on Internet measurement  
Publisher: ACMFull text available:  Pdf (468.40 KB)Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 148, Citation

Increasingly, network operators do not directly operate computers on the network. Instead, they use passive monitoring for assessing network vulnerabilities to ensure compliance with policies and to detect and track services that affect provisioning. ...

**Keywords:** active measurement, network reconnaissance, passive monitoring, situational awareness

**15 A situatedness-based knowledge plane for autonomic networking**

Thomas Bilot, Rida Khatoun, Louis Hugues, Dominique Gailli, Leilla Merghe

March 2008 | International Journal of Network Management , Volume 18 | Number 2  
Publisher: John Wiley & Sons, Inc.Full text available:  Pdf (542.37 KB)Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 128, Citation

IP networks, and particularly the Internet, were proposed to be a simple and homogeneous communications. This implies that only basic control mechanisms are provided by network elements. Communication management has to be performed

**16 Detecting distributed scans using high-performance query-driven visitation** Kurt Stockinger, E. Wes Bethel, Scott Campbell, Eli Dart, Kesheng WuNovember 2006 | SC '06: Proceedings of the 2006 ACM/IEEE conference on Supercomputing  
Publisher: ACMFull text available:  Html (2.35 KB),  Pdf (433.00 KB)Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 99, Citation

Modern forensic analytics applications, like network traffic analysis, perform hypothesis testing, knowledge discovery and data mining on very large collections of data to reduce the time required for these operations is ...

Keywords: data mining, network connection analysis, network security, visual analytics

### 17 [Querying the internet with PIER](#)

Ryan Huebsch, Joseph M. Hellerstein, Nick Lanham, Boon Thau Lee, Scott S. September 2003 VLDB '03: Proceedings of the 29th international co bases - Volume 29 , Volume 29

Publisher: VLDB Endowment

Full text available:  Pdf (171.74 KB)

Additional Information: [full citation](#), [abstract](#), [related](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 86, Citation Count: 10

The database research community prides itself on scalable technologies. They traditionally do not excel on one important scalability dimension: the degree of parallelism. This limitation has hampered the impact of database technologies ...

### 18 [A realistic simulation of internet-scale events](#)

 Songjie Wei, Jelena Mirkovic

October 2006 valuetools '06: Proceedings of the 1st international conference on value tools for network simulation: methodologies and tools

Publisher: ACM

Full text available:  Pdf (309.34 KB)

Additional Information: [full citation](#), [abstract](#), [related](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 86, Citation Count: 10

Internet-scale security incidents are becoming increasingly common, and it is important to be able to replicate and study them in a controlled setting. Current network simulation tools and testbed emulation cannot faithfully replicate ...

Keywords: distributed simulation, invasive software, simulation and modeling

### 19 [Improved error reporting for software that uses black-box component interfaces](#)

 Jungwoo Ha, Christopher J. Rossbach, Jason V. Davis, Indrajit Roy, Hany E. ElBeltagi, David L. Chen, Emmett Witchel

June 2007 PLDI '07: Proceedings of the 2007 ACM SIGPLAN conference on programming language design and implementation

Publisher: ACM

Full text available:  Pdf (345.48 KB)

Additional Information: [full citation](#), [abstract](#), [related](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 215, Citation Count: 10

An error occurs when software cannot complete a requested action as a result of a problem with the input, configuration, or environment. A high-quality error report allows a developer to quickly identify and correct the problem. Unfortunately, the quality of ...

Keywords: classification, error report, machine learning, profiling, software engineering

Also published in:

June 2007 SIGPLAN Notices Volume 42 Issue 6

### 20 [Is sampled data sufficient for anomaly detection?](#)

Jianning Mai, Chen-Nee Chuah, Ashwin Sridharan, Tao Ye, Hui Zang

◆ October 2006 IMC '06: Proceedings of the 6th ACM SIGCOMM conference on  
Publisher: ACM  
Full text available:  [PDF](#) (1.83 MB) Additional Information: [full citation](#), [abstract](#), [bibTeX](#)  
Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 175, Citation Count: 10, Co-citation Count: 0, Co-cited By Count: 0

Sampling techniques are widely used for traffic measurements at high link utilization. Traditionally, sampled traffic data is used for network management and matrix estimations, but recently it has also been used ...

Keywords: anomaly detection, portscan, sampling, volume anomaly

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 21 [Proceedings of the 2005 ACM/SIGDA 13th international symposium on Field-programmable gate arrays](#)

Herman Schmit, Steve Wilton

 February 2005 FPGA '05: Proceedings of the 2005 ACM/SIGDA 13th international symposium on Field-programmable gate arrays  
Publisher: ACM

 Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

On behalf of the organizing and program committees, welcome to *FPGA '05: Thirteenth International Symposium on Field-Programmable Gate Arrays*. The symposium features papers and posters describing the latest advances in field-programmable gate arrays, ...

 22 [Bitmap algorithms for counting active flows on high speed links](#)

Cristian Estan, George Varghese, Mike Fisk

 October 2003 IMC '03: Proceedings of the 3rd ACM SIGCOMM conference on Internet measurement  
Publisher: ACM

 Full text available: [Pdf](#) (330.81 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 66, Citation Count: 10

This paper presents a family of bitmap algorithms that address the problem of counting active flows on high speed links. The number of distinct header patterns (flows) seen on a high speed link can be used to detect DoS attacks and port scans, and to solve measurement problems.

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Keywords: counting flows, network traffic measurement

 23 [Data reduction for the scalable automated analysis of distributed denial-of-service traffic](#)

 Michael Bailey, Evan Cooke, Farnam Jahanian, Niels Provos, Karl Rosaen, David L. Tennenbaum  
October 2005 IMC '05: Proceedings of the 5th ACM SIGCOMM conference on Internet Measurement

Publisher: USENIX Association

 Full text available: [Pdf](#) (1.82 MB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 39, Citation Count: 10

Threats to the privacy of users and to the availability of Internet infrastructure are evolving at a tremendous rate. To characterize these emerging threats, it is important to effectively balance monitoring the large number of hosts needed to

24 [Bitmap algorithms for counting active flows on high-speed links](#)

 Cristian Estan, George Varghese, Michael Fisk

October 2006 [IEEE/ ACM Transactions on Networking \(TON\)](#) , Volume 14

Publisher: IEEE Press

Full text available:  [Pdf](#) (952.17 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 78, Citation

This paper presents a family of bitmap algorithms that address the problem of counting the number of distinct header patterns (flows) seen on a high-speed link. The number of distinct header patterns (flows) seen on a high-speed link can be used to detect DoS attacks and port scans and to solve measurement problems.

...

**Keywords:** counting distinct elements, traffic measurements

25 [A data mining approach for analysis of worm activity through automatic signature generation](#)

 October 2008 [AI Sec '08: Proceedings of the 1st ACM workshop on Workshops in AI for security](#)

Publisher: ACM

Full text available:  [Pdf](#) (787.79 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 10, Citation

This paper proposes a novel framework to automatically discover and analyze network traffic anomalies generated by computer worms and other anomalous behaviors that interfere with a network's solicited traffic monitoring system. Network packets are analyzed by an intelligent detection system to automatically generate signatures for worms.

**Keywords:** automatic signature generation, data mining, honeypots, intelligent detection, malware identification

26 [Monitoring and early warning for internet worms](#)

 Cliff Changchun Zou, Lixin Gao, Weibo Geng, Don Towsley

October 2003 [CCS '03: Proceedings of the 10th ACM conference on Computer and communications security](#)

Publisher: ACM

Full text available:  [Pdf](#) (227.83 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 37, Downloads (12 Months): 178, Citation

After the Code Red incident in 2001 and the SQL Slammer in January 2003, it is clear that a simple self-propagating worm can quickly spread across the Internet, infecting the most vulnerable computers before people can take effective countermeasures. This paper presents a monitoring and early warning system for Internet worms.

**Keywords:** early detection, monitoring, worm propagation

 **Dendritic cells for SYN scan detection****Julie Greensmith, Uwe Aickelin**

July 2007 GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation

Publisher: ACM

Full text available:  [Pdf](#) (2.87 MB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 122, Citation

Artificial immune systems have previously been applied to the problem of detection. The aim of this research is to develop an intrusion detection system using the function of Dendritic Cells (DCs). DCs are antigen presenting cells and

**Keywords:** artificial immune systems, dendritic cells, port scans**28 Towards NIC-based intrusion detection** **M. Otey, S. Parthasarathy, A. Ghosh, G. Li, S. Narayana, D. Panda**

August 2003 KDD '03: Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining

Publisher: ACM

Full text available:  [Pdf](#) (103.59 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 83, Citation

We present and evaluate a NIC-based network intrusion detection system. Detection at the NIC makes the system potentially tamper-proof and is more extensible to work in a distributed setting. Simple anomaly detection and detection ...

**Keywords:** NICs, data mining, network interface cards, network intrusion detection, network security**29 Fast hash table lookup using extended bloom filter: an aid to network processing** **Haoyu Song, Sarang Dharmapurikar, Jonathan Turner, John Lockwood**

August 2005 SIGCOMM '05: Proceedings of the 2005 conference on Applications, technologies, architectures, and protocols for computer communication

Publisher: ACM

Full text available:  [Pdf](#) (338.54 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 207, Citation

Hash tables are fundamental components of several network processing applications, including route lookup, packet classification, per-flow state and network monitoring. These applications, which typically occur in the

**Keywords:** forwarding, hash table

Also published in:

October 2005 SIGCOMM Computer Communication Review Volume 35 Issue

**30 Semi-supervised approach to rapid and reliable labeling of large data sets**

◆ György J. Simon, Vipin Kumar, Zhi-Li Zhang  
◆ August 2008 KDD '08: Proceeding of the 14th ACM SIGKDD international conference on Knowledge discovery and data mining  
Publisher: ACM  
Full text available:  Pdf (274.82 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)  
Bibliometrics: Downloads (6 Weeks): 45, Downloads (12 Months): 103, Citation

In this paper, we propose a method, where the labeling of the data set is in a semi-supervised manner with user-specified guarantees about the quality of labeling. In our scheme, we assume that for each class, we have some labeled data and some unlabeled data.

**Keywords:** labeling data sets, performance guarantees, semi-supervised learning

### 31 Can machine learning be secure?

◆ Marco Barreno, Blaine Nelson, Russell Sears, Anthony D. Joseph, J. D. Tygar  
◆ March 2006 ASIACCS '06: Proceedings of the 2006 ACM Symposium on Information, computer and communications security  
Publisher: ACM  
Full text available:  Pdf (343.53 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)  
Bibliometrics: Downloads (6 Weeks): 45, Downloads (12 Months): 198, Citation

Machine learning systems offer unparalleled flexibility in dealing with evolving variety of applications, such as intrusion detection systems and spam e-mail. However, machine learning algorithms themselves can be a target of attack.

**Keywords:** adversarial learning, computer networks, computer security, intrusion detection, machine learning, security metrics, spam filters, statistical learning

### 32 Reverse engineering the Internet

◆ Neil Spring, David Wetherall, Thomas Anderson  
◆ January 2004 SIGCOMM Computer Communication Review, Volume 34 Issue 1  
Publisher: ACM  
Full text available:  Pdf (125.88 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)  
Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 82, Citation

To provide insight into Internet operation and performance, recent effort has measured various aspects of the Internet, developing and improving methods in the process. In this paper, we argue that these independent advances in the community ...

### 33 How healthy are today's enterprise networks?

◆ Salkat Guha, Jaideep Chandrashekhar, Nina Taft, Konstantina Papagiannaki  
◆ October 2008 IMC '08: Proceedings of the 8th ACM SIGCOMM conference on Measurement and experiment  
Publisher: ACM  
Full text available:  Pdf (401.09 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)  
Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 31, Citation

In this paper we take a look at the health of a typical enterprise network metric based on the fraction of useful flows generated by endhosts. Flow non-useful are those that explicitly fail or else do not elicit a response from the destination host.

**Keywords:** enterprise, environment awareness, mobility, network health

**34 New directions in privacy-preserving anomaly detection for network traffic**

 October 2008 NDA '08: Proceedings of the 1st ACM workshop on Network data anonymization

Publisher: ACM

Full text available:  Pdf (288.83 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 11, Citation Count: 0

The enormous amount of traffic data gathered by network monitoring systems is a serious threat on the privacy of the network customers. To face this issue, this paper promotes a new approach to privacy-preserving network monitoring. With this approach, the privacy of the network customers is guaranteed.

**Keywords:** anomaly detection, counting bloom filters, privacy-preserving, measurement

**35 Mining block correlations to improve storage performance**

 Zhenmin Li, Zhifeng Chen, Yuanyuan Zhou

May 2005 Transactions on Storage (TOS) , Volume 1 Issue 2

Publisher: ACM

Full text available:  Pdf (1.02 MB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 164, Citation Count: 10

Block correlations are common semantic patterns in storage systems. They can be exploited for improving the effectiveness of storage caching, prefetching, and disk scheduling. Unfortunately, information about block correlations is currently unavailable ...

**Keywords:** Storage management, block correlations, file system management, methods and algorithms

**36 PSoup: a system for streaming queries over streaming data**

Sirish Chandrasekaran, Michael J. Franklin

August 2003 The VLDB Journal — The International Journal on Very Large Data Bases , Volume 12 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (267.99 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 52, Citation Count: 10

Abstract. Recent work on querying data streams has focused on systems that arriving data is processed and continuously streamed to the user in real time. In emerging applications, however, ad hoc queries and/or intermittent con-

Keywords: Disconnected operation, Query-data duality, Stream query p

37 [Detecting energy-greedy anomalies and mobile malware variants](#)

 [Hahnsang Kim, Joshua Smith, Kang G. Shin](#)

June 2008 [MobiSys '08: Proceeding of the 6th international conference on systems, applications, and services](#)

Publisher: ACM

Full text available:  [Pdf](#) (565.81 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 77, Downloads (12 Months): 183, Citation Count: 10

Mobile users of computation and communication services have been rapidly increasing the use of battery-powered mobile handhelds, such as PocketPCs and SmartPhones. However, the limited battery-lifetime of these devices restricts their portability and mobility.

Keywords: power consumption history, power signature

38 [Streaming queries over streaming data](#)

 [Sirish Chandrasekaran, Michael J. Franklin](#)

August 2002 [VLDB '02: Proceedings of the 28th international conference on Data Bases](#)

Publisher: VLDB Endowment

Full text available:  [Pdf](#) (205.96 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 67, Citation Count: 10

Recent work on querying data streams has focused on systems where new data is processed and continuously streamed to the user in real-time. In emerging applications, however, ad hoc queries and/or intermittent constraints require ...

39 [Efficient web browsing on handheld devices using page and form summarization](#)

 [January 2002 Transactions on Information Systems \(TOIS\) , Volume 20 Issue 1](#)

Publisher: ACM

Full text available:  [Pdf](#) (4.47 MB) Additional Information: [full citation](#), [abstract](#), [reference](#), [terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 185, Citation Count: 10

We present a design and implementation for displaying and manipulating Web pages on small handheld devices such as personal digital assistants (PDAs), or mobile phones. We introduce methods for summarizing parts of Web pages and HTML forms for the Web ...

Keywords: PDA, Personal digital assistant, WAP, WML, forms, handheld computing, mobile computing, summarization, ubiquitous computing, wireless computing

40 [On the robustness of router-based denial-of-service \(DoS\) defense systems](#)

 [Ying Xu, Roch Guérin](#)

July 2005 [SIGCOMM Computer Communication Review , Volume 35 Issue 3](#)

Publisher: ACM

Full text available:  [Pdf](#) (441.29 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 106, Citation Count: 0

This paper focuses on "router-based" defense mechanisms, and whether they provide effective solutions to network Denial-of-Service (DoS) attacks. Router-based defenses operate either on traffic aggregates or on individual flows, and are shown, ...

**Keywords:** denial-of-service, router-based defense

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**41** [Defending against hitlist worms using network address space randomization](#)
[S. Antonatos, P. Akritidis, E. P. Markatos, K. G. Anagnostakis](#)
[November 2005 WORM '05: Proceedings of the 2005 ACM workshop on Rapidly changing environments in the Internet](#)  
Publisher: ACM
 
 Full text available: [Pdf \(433.30 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [ref](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 82, Citation

Worms are self-replicating malicious programs that represent a major security threat to the Internet, as they can infect and damage a large number of vulnerable hosts. Current human responses are unlikely to be effective. Sophisticated worms ...

Keywords: internet worms, network security, randomization, traffic analysis

**42** [Packet vaccine: black-box exploit detection and signature generation](#)
[XiaoFeng Wang, Zhuowei Li, Jun Xu, Michael K. Reiter, Chongkyung Kil, Jor](#)  
 [October 2006 CCS '06: Proceedings of the 13th ACM conference on Computer and communications security](#)  
Publisher: ACM
 
 Full text available: [Pdf \(451.38 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [ref](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 132, Citation

In biology, a *vaccine* is a weakened strain of a virus or bacterium that is injected into the body for the purpose of stimulating antibody production. Inspired by this vaccine mechanism that randomizes address-like ...

Keywords: black-box defense, exploit detection, signature generation, vulnerability

**43** [Weighting versus pruning in rule validation for detecting network and system intrusions](#)
[Gaurav Tandon, Philip K. Chan](#)  
 [August 2007 KDD '07: Proceedings of the 13th ACM SIGKDD international conference on Knowledge discovery and data mining](#)  
Publisher: ACM
 
 Full text available: [Pdf \(791.25 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [ref](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 179, Citation

For intrusion detection, the LERAD algorithm learns a succinct set of com

detecting anomalies, which could be novel attacks. LERAD validates the *I held-out* validation set and removes rules that cause ...

**Keywords:** anomaly detection, machine learning, rule pruning, rule weight

44 [A generic language for application-specific flow sampling](#)

 [Harsha V. Madhyastha, Balachander Krishnamurthy](#)

March 2008 [SIGCOMM Computer Communication Review](#), Volume 38 Issue 1  
Publisher: ACM

Full text available:  [Pdf \(1.78 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [related publications](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 116, Citation Count: 10

Flow records gathered by routers provide valuable coarse-granularity traffic information for measurement-related network applications. However, due to high volume of traffic, only a small fraction of the traffic needs to be sampled before they are gathered. Current ...

**Keywords:** application-specific traffic monitoring, flow sampling, language

45 [A multifaceted approach to understanding the botnet phenomenon](#)

 [Moheeb Abu Rajab, Jay Zarfos, Fabian Monroe, Andreas Terzis](#)

October 2006 [IMC '06: Proceedings of the 6th ACM SIGCOMM conference on Internet measurement](#)  
Publisher: ACM

Full text available:  [Pdf \(699.05 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [related publications](#)

Bibliometrics: Downloads (6 Weeks): 99, Downloads (12 Months): 507, Citation Count: 10

The academic community has long acknowledged the existence of malicious botnets. However, despite, very little is known about the behavior of these distributed computing systems. To our knowledge, botnet behavior has never been methodically ...

**Keywords:** botnets, computer security, malware, network security

46 [Bench-style network research in an Internet Instance Laboratory](#)

 [Paul Barford, Larry Landweber](#)

July 2003 [SIGCOMM Computer Communication Review](#), Volume 33 Issue 3  
Publisher: ACM

Full text available:  [Pdf \(567.36 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [related publications](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 11, Citation Count: 10

Network researchers employ a variety of experimental methods and tools, including emulators, simulators, and widely deployed measurement infrastructure. However, the overall scope of network research may be limited ...

47 [Evaluating Network Processors using NetBench](#)

 [Gokhan Memik, William H. Mangione-Smith](#)

May 2006 [Transactions on Embedded Computing Systems \(TECS\)](#), Volume 5 Issue 1  
Publisher: ACM

Full text available:  [Pdf \(547.53 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [related publications](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 97, Citation Count: 10

The Network Processor market is one of the fastest growing segments of today. In spite of this increasing market importance, there does not exist a way to compare the performance of different Network Processor ...

**Keywords:** Embedded systems, benchmarking, network processors

**48 Policies for sharing distributed probabilistic beliefs**

 Christopher Leckie, Ramamohanarao Kotagiri

February 2003 ACSC '03: Proceedings of the 26th Australasian computer science conference, Volume 16 , Volume 16

Publisher: Australian Computer Society, Inc.

Full text available:  Pdf (81.53 KB) Additional Information: [full citation](#), [abstract](#), [related terms](#)

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